

Aberdeen Proving Ground (APG) Science and Technology Board
Meeting - March 19, 1998

1. The APG Science and Technology (S&T) Board convened for the first time since its inaugural ceremony at the Higher Education and Applied Technology Center (HEAT) at 10:00 a.m., March 19, 1998.

2. Attendees:

Ms. Marian Justus, Harford Community College
Ms. Patricia Cook, U.S. Army Materiel Systems
Analysis Activity
Mr. Bruce Amrein, U.S. Army Research Laboratory
Dr. Kenneth Juris, U.S. Army Environmental
Activity
Dr. Joseph Rocchio, U.S. Army Research
Laboratory
Mr. William Atwater, U.S. Army Ordnance Center
and School
Mr. Raymond Pollard, U.S. Army Test and
Evaluation Command
Dr. Dave Brown, U.S. Army Test and Evaluation
Command
Mr. Harry Cunningham, U.S. Army Aberdeen Test
Center
Mr. Bob Gross, U.S. Army Chemical Biological
Defense Center
Mr. Bob Silcox, U.S. Army Garrison, Aberdeen
Proving Ground
Ms. Laura Rothenberg Haug, U.S. Army Test and
Evaluation Command
COL Roslyn Glantz, U.S. Army Garrison, Aberdeen
Proving Ground
Ms. Denise Carrnagio, Harford County Office of
Economic Development
Mr. Warren Mullins, Battelle
Mr. Warren Hartenstine, Higher Education and
Applied Technology Center
Dr. Rusty Stephens, Harford Community College
Mr. James Kelton, Consultant
Dr. Jim Streilein, U.S. Army Operational Test
Command
Dr. Robert Gell, Cecil Community College
Ms. Pat McClung, U.S. Army Test and Evaluation
Command
Ms. Pat Sharpless, U.S. Army Test and Evaluation
Command
Ms. Virginia To, U.S. Army Research Laboratory
Dr. Margaret Filbert, U.S. Army Medical Research
Institute of Chemical Defense
Mr. Stephen Clark, U.S. Army Test and Evaluation
Command

3. Dr. Brown opened the meeting. Each attendee introduced themselves and the activity that they represented.

4. Col. Glantz presented S&T museum concept. Mr. Jack Atwater demonstrated via computer what the new museum would look like. Structure will be quite large; will suspend banners from the ceiling to break up the "cavern effect". Plan to put 100 by 100-foot auditorium. Purpose of the museum is to teach. Staffing of museum will be critical. Possibility of sponsorship is being considered (corporate). Corporate sponsorship must tell a story about what the corporation has done to defend the country. Mr. Atwater discussed the functions of the Ordinance Foundation. The legal ruling is that the U.S. Army is not allowed to solicit for funding, however the foundation is allowed. Further, the U.S. Army cannot advertise for funds. The Science and Technology exhibits can share common space to reduce costs. Involved individuals are looking for creative means such as utility grants for lighting, etc.

5. Mr. Pollard addressed the board. He stated that the goal of the board is not just to sit and pontificate, but to serve as a scientific interface. The board must do things to enhance interface, methods, and processes. Must be ready to do work; set the board to enable. We have a world class center at APG, how does outside community in this region reach APG assets? Interface exists, but do we know what each other is doing? The sharing of technology is the major goal. Gen. Longhouser and Eileen Rehrmann initiated board a year ago. Concept was tying the Federal, industry, and academia together. Idea was to create a synergy to promote a transfer of technology. Pollard vision is transferring of technology in the local the region versus that of nationwide or worldwide. The higher the technology is outside of the gate, the better for us inside the gate.

a. What do we want the board to do? How do we approach the APG technical community? Board needs to be the resource and advocate. There are many resources already at work inside and outside the gate. The question is how to leverage them. Board does not seek money to do the work, the assets are here. When we enhance technology transfer, it benefits everyone. The HEAT center has a major role in the community. It brings more resources to the community. Enhance technology at practical levels. Any action underway is not to be stopped or hindered by board. If however, you have a technology you want to develop; the board is the forum to utilize. Academia is available to put an educational program together.

b. Mr. Pollard wants to put together a team to work the various actions.

(1) Publicity

(a) What is publicity? The use of newspaper ads; we need to advertise the board's existence to include how to get on its agenda. Who is the target audience? Suggest that it is academia, private sector, those who have ideas, state and local government who believes that there is an exchange potential, and those who believe that there are exchange possibilities. Need to define what the access to APG is. Does not want to close the doors to APG but wants to enhance them. Looking for volunteers.

(b) How? World Wide Web page, newsletter (may not be good), S&T journals (good way). Mr. Pollard opened the floor for discussion and for volunteers to serve on publicity subcommittee.

(c) Shared data base suggested by Mr. Hartenstine. Promulgating the activities at APG to include the financial aspects. From the political side, this is advantageous not just a project basis. Further states that a face must be put on the Web. WWW is a good start for the database for POC for technologies. Reston, VA. created a town square was you could pull up those services that you need. A virtual community similar to this for APG would be good.

(d) Mr. Hartenstine will chair, members are Ginny To, Marian Justus, Rusty Stephens, and Bob Gross, Pat McClung, Pat Sharpless, Warren Mullins, and Ken Juris.

(e) Dr. Stephens suggested that HCC home page needs to have a button to S&T. Most Americans will be on the WWW soon.

(f) Ms. To suggested that day to day communication still most effective way of passing the word of S&T board.

(g) Col. Glantz states APG newspaper good vehicle for passing the word.

(h) Dr. Rocchio will appoint others from ARL. Also suggest press releases.

(i) Ms. McClung states that articles must come from PAO offices; make a link to make certain that coordinated word goes out.

(2) Higher Education

(a) Define; means different things to different people. Harford County has the HEAT and HCC as a wonderful resource. APG educational center, plus greater area colleges. APG has 350 plus Ph.Ds. We will need higher degree classification at APG. Vision is to see HEAT become an integrated, laboratory center. Will have capabilities to

have access to facilities. Goal is to make HEAT a high tech campus.

(b) Mr. Pollard spoke of work that university of Tennessee Space Institute, Eglin AFB, and Redstone Arsenal are doing. Detroit has put together a consortium for technology. Would like to see the HEAT center to evolve to preclude our people from having to go away for higher education. This initiative will enhance technology in the region.

(c) Dr. Rocchio agrees with this concept, but we should think of the models (paragraph above); those areas had little or nothing before. We have the mirror image of that with our educational facilities available in the area. Incorporate the present resources. Model similar in other locations that we should exploit for combined services. Need to look at what partners to go after. Distance learning needed. HEAT Phase II has a general science laboratory. Space is flexible. One question is what future partners can bring to HEAT center.

(d) Ms. To using the HEAT center for training in subjects related to High performance computing. Workshops are also available. Degree and certificate programs in place by fall, also looking at graduate level programs. Needs to know what kinds of programs are needed in the community.

(e) Dr. Brown suggested that the needs survey conducted several years ago be redone. The survey should look at both the local community and APG.

(f) Mr. Hartenstine stated that no one is going to build a new university. Must find a way to integrate private world with the educational system. Must keep track of where income comes from.

(g) Mr. Pollard stated that you can build a university in a non-classical sense. We have plethora of resources available. Build a virtual university.

(h) Ms. Carnaggio referenced the draft partnership agreement between HEAT and APG. This can be the focus of the subcommittee. Sees the S&T board as the implement of the agreement. It is called a Memorandum of Understanding now.

(i) Dr. Stephens will chair, subgroup members include Ms. Filbert, Dr. Rocchio, Ms. Carnaggio, Ms. To, Ms. Cook, and Mr. Kelton.

(3) Technology Interface:

(a) How do you get folks together to work on a project to see what they can bring to the project? Would like to see projects tied together to share. Need to develop a roadmap or handbook, how do you get to non-APG community. Propose one or two pilot programs to gain experience and a roadmap for this.

(b) Mr. Pollard discussed the roadway simulator, and the Army after Next. The Army is looking for very high speed ground systems. Speeds will be over 100 miles an hour. Testing capabilities do not exist now, must be built. Simulation will be the way to accomplish this. Roadway simulator could be located at HEAT Center with APG as a customer. Suggests this would be a good pilot program along with materials.

(c) Dr. Ingo May, ARL and Dr. Streilein will co-chair the subgroup. Members include Mr. Cunningham, Mr. Hartenstine, Dr. Gell, Mr. Kelton, Mr. Gross and Ms. Rothenberg Haug. Dr. Rocchio will find someone from ARL.

(d) Board will facilitate this technology to bear. Develop how someone works the proving ground and brings technology to bear. All subgroups will report back to the board with status update, not for approval, but for edification.

(e) Mr. Hartenstine. Spin off of simulator if the property is jointly used. Further, the state of Maryland was going to build a crash facility in Western Maryland until they found out about APG capabilities.

(f) Dr. Stephens is interested in windmill technology. Positioned to do research in this area, and solar cell technology. Might want to look at technology incubators. Make facilities independent of energy grids. Offer no cost energy solutions to prospective firms would be a benefit.

6. Web Page

Ms. To stated that we have a rudimentary web page brought up before charter signing. Calls for information to populate now have come back. The publicity subgroup will work issues. The page requires appropriate links from organizations. Ms. To will gather info through the subgroup and will populate the board accordingly. She requires email and faces, and web site link for each site. Send all input to Ginny@arl.mil, telephone 410 378-9282, fax 297-9521.

7. NMTC Report

(a) Mr. Mullins stated that the Northeastern Maryland Technology Council was formed in 1992 as adjunct to

HEAT. Mission has evolved into working with HEAT, community colleges in assisting in developing programs of training, with proving ground to create a synergy of technology, and support of counties to support economic growth.

(b) The council has a general membership of 100, a board of directors redrafted monthly meetings of general membership, an BI-monthly meeting for board for future plans, operations, and programs. May need to meet more frequently. Fell into decline in mid nineties. Mr. Swisher first paid staffer. The council wants to get involved with more such as web site. Sees the HEAT as building the technology side. Industry needs skilled resources in an area before they want to move in. NMTC is like the chamber of commerce. It is also like a pipe in that it must move technology, information, and services both ways.

(c) Mr. Pollard sees the NMTC as mirror opposite of S&T board. S&T can be the APG chamber of commerce.

8. The next S&T board meeting will meet in two months, Agenda items will include subgroup reports; send proposed items to Mr. Pollard or Dr. Brown.

9. The meeting adjourned at 11:00 am.

STEPHEN CLARK
S&T Board Coordinator